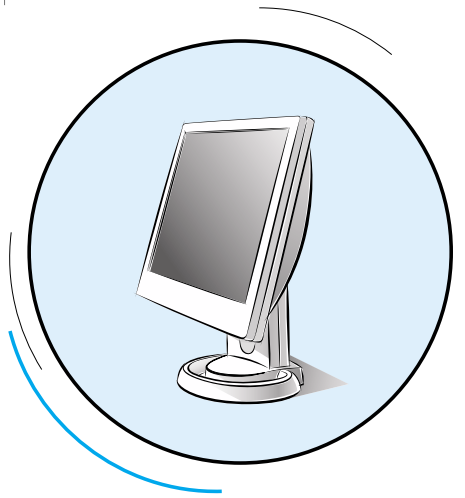
Ikegami

User's Manual

TFT-LCD Color Monitor

IK-H550V



Printed on the recyclable paper

Printed in Thailand
Part No. 942635020001 - 02

INFORMATION TO USER :

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates, uses and can radiate radio frequency energy and,if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by determined by turning the equipment off and on, the user is encouraged to try to crrent the interference by one or more of the fllowing measures:

1. Reorient/Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit difference from that to which the recerver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

ENERGY STAR

As an ENERGY STAR partner, Hansol Electronics Inc.
has determined that this product meets ENERGY STAR guidelines for energy efficiency.

Table of Contents

Parts 3

Connection to Signal Source 4

The range of control Angle 5

Name and Function of Front 6

Power Management Feature 8

Adjusting OSD
PC MODE 9
CVBS, S-VIDEO MODE 16

Standard Signal Table 23

Specification 24

Troubleshooting 25

Warning 27

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER(OR BACK)
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The lighting flash with arrowhead symbol,
Within an equilateral trangle, is intended to alert the user to the presence of uninsulated
"dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitude a risk of electric shock to persons.

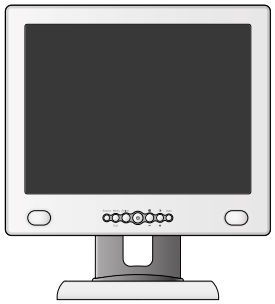
The exclamation point within an equilateral trangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Good Posture Guide

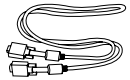
- Place the monitor to face the user and then adjust the monitor angle.
- Take a break (for about 10 minutes) at every hour during the work with monitor.
- Refer to the following figure to take the correct posture.

- Look down the monitor below the horizon.
- Adjust the monitor to prevent reflection.
- Relax shoulders and arms, and sit back on the chair.
- Adjust the monitor stand to acquire required angle.
- Maintain the arms horizontally and place hands softly on the keyboard.
- Keep feet flat on the ground.

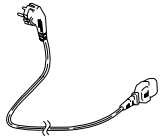
Parts



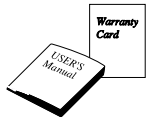
LCD Monitor



Signal Cable



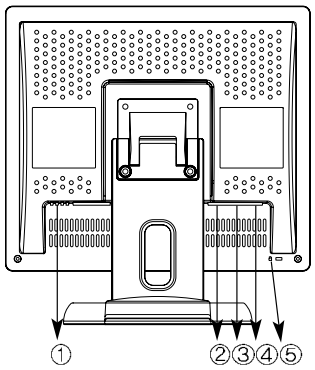
AC Power Cable



User's Manual / Warranty Card

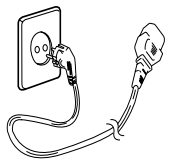
Connection to Signal Source

Basic Connection



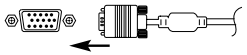
① Port for AC power cable.
② Port for BNC input
③ Port for S-VHS input
④ Port for signal cable from signal source.
⑤ Kensington Lock

< Power source connection >



< Signal cable connection>

▶ General



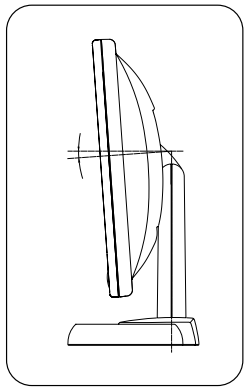
▶ For Macintosh

Adapter for Macintosh (Optional)
Refer to the table on the rear side of the optional Macintosh adapter and adjust DIP switch by the resolution.

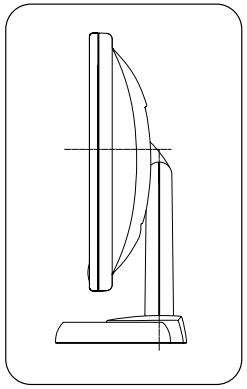
1. Use 220 V or 110 V. (Free Voltage)
2. Connect monitor and Signal Source via Signal cable
3. Power on the monitor and computer.
4. Connection is finished.

The range of control Angle

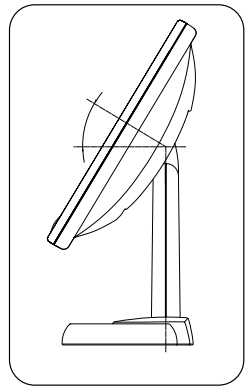
▼ **How to Adjust the Stand**



▲ Forward 4°



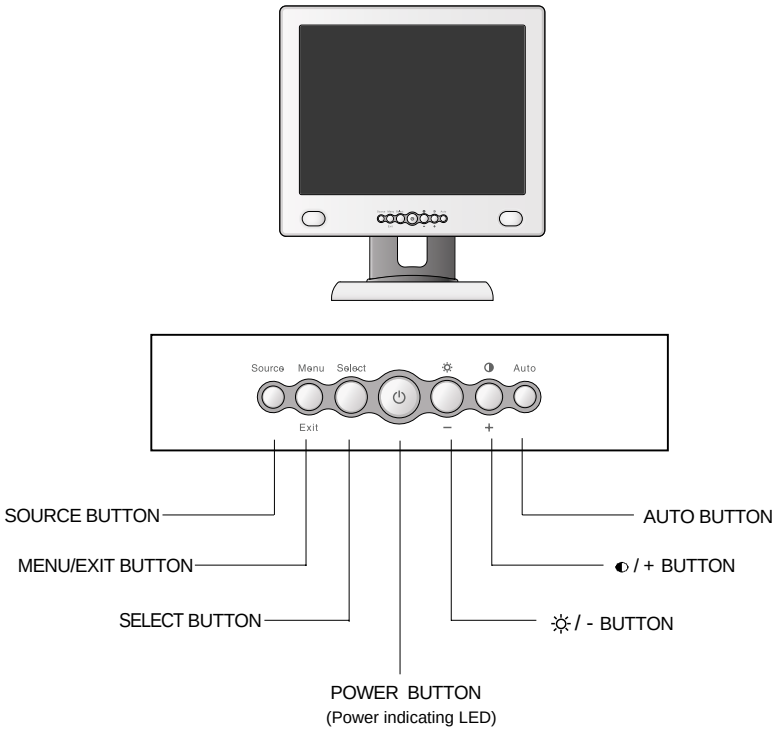
▲ Default



▲Backward 31°

Name and Function of Front

Front panel



Functions

◆ Power button

Power button is located in the lower center of the Front Bezel.
You can push the button to turn on/off the power.

◆ Power Indicating LED

- Dark : Power off
- Green : Normal mode
- Green blinking : DPMS mode or Check Signal Cable mode.

◆ On-Screen Display (OSD) Function Button

OSD buttons on the front of bezel perform the following functions.

- SOURCE : Monitor displays source of the signal in order (PC → CVBS → S-VHS)
- MENU/EXIT : Press this button to display menus. If you press this button when OSD is displayed, you can switch display to the previous menu and exit menu.
- SELECT : When OSD is displayed, You can select icons.
- POWER : Power button.
- +/◐, -/☼ : By pressing these buttons when OSD is displayed, you can move cursor into the menus which you want.
  After pressing the SELECT button, you can change gauge level or select submenus.
  When OSD is not displayed, you can adjust brightness or contrast.
- AUTO : Press this button, when OSD is not displayed, to perform automatic setting. (only PC Mode.)

Power Management Feature

The monitor is equipped with a power saving circuit that confirms to the world-standard Display Power Manager Signalling (DPMS) mode of Video Electronics Standard Association (VESA). The power management feature requires that the video card of the computer should support DPMS function.

Status	LED Sign	Power Consumption
Normal mode	Green ON	Normal Power
DPMS mode	Green Blinking	3W or Below

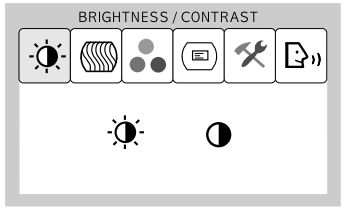
No image is displayed with Green blinking.
- Monitor is in power saving mode.
- Use mouse or keyboard to release power saving mode.

No image is displayed without LED on.
- Power cable plug must be pulled out.
- Check the power plug on monitor and on the wall.

"Out of range" displayed on the screen.
- This message is displayed when the signal from video card exceeds the maximum frequency of the monitor. Readjust resolution and frequency in accordance with the monitor capacity. (Refer to Standard Signal Table)

Adjusting OSD - PC MODE

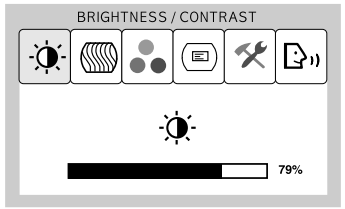
Brightness / Contrast



MENU → − + → SELECT

1. Press the MENU button to access main menu.
2. Use − ,+ to move Brightness / Contrast ICON.
3. Press SELECT button into the submenu.

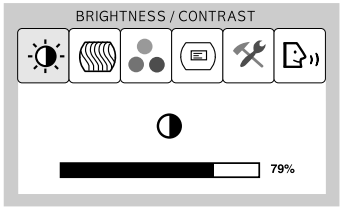
Brightness



− + → SELECT → − +

1. Use − ,+ to move Brightness ICON.
2. Press SELECT button to select it.
3. Use − ,+ to adjust the brightness of the screen.

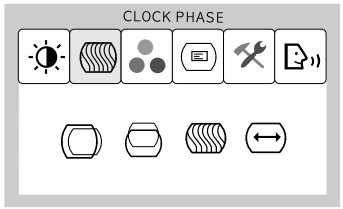
Contrast



− + → SELECT → − +

1. Use − ,+ to move Contrast ICON.
2. Press SELECT button to select it.
3. Use − ,+ to adjust the contrast of the screen.

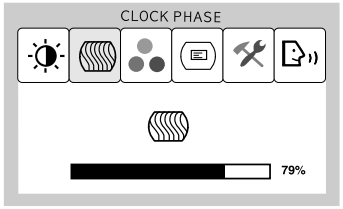
Clock Phase



MENU → **−** **+** → **SELECT**

1. Press the MENU button to access main menu.
2. Use **−** ,**+** to move CLOCK PHASE ICON.
3. Press SELECT button into the submenu.

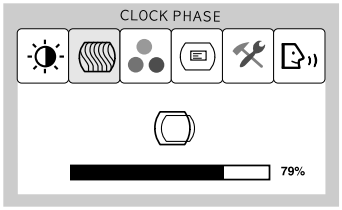
Phase



− **+** → **SELECT** → **−** **+**

1. Press **−** ,**+** to move Phase ICON.
2. Use SELECT button to select it.
3. Use **−** ,**+** to correct fine trembling or Video noise.

Horizontal Position

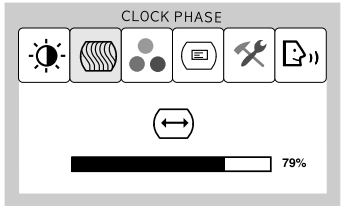


− **+** → **SELECT** → **−** **+**

1. Use **−** ,**+** to move H-Position ICON.
2. Press SELECT button to select it.
3. Use **−** ,**+** to adjust display left or right.

According to the characteristic of video card, control range can be changed.

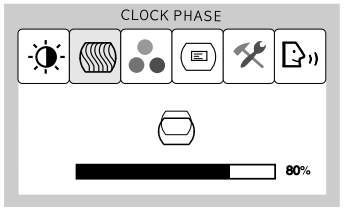
Clock



− **+** → **SELECT** → **−** **+**

1. Use **−** ,**+** to move Clock ICON.
2. Press SELECT button to select it.
3. Press **−** or **+** to remove vertical noise.
   (Adjusting clock phase is required after the adjustment of clock.)

Vertical Position

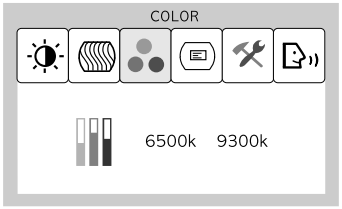


− **+** → **SELECT** → **−** **+**

1. Use **−** ,**+** to move V-Position ICON.
2. Press SELECT button to select it.
3. Use **−** ,**+** to adjust display upward or downward.

According to the characteristic of video card, control range can be changed.

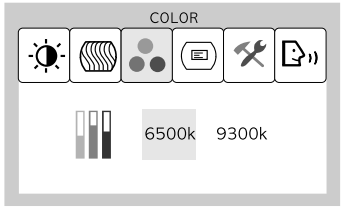
Color



MENU → **−** **+** → **SELECT**

1. Press MENU button to access main menu.
2. Use **−** ,**+** to move Color ICON.
3. Press SELECT button into the submenu.

Preset Color

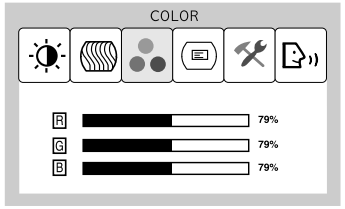


– + → **MENU**

1. Use – ,+ to select the Mode 1, and Mode 2.
2. Press the Menu button to return previous state.

9300K : Slightly Bluish white.
6500K : Slightly Reddish white.

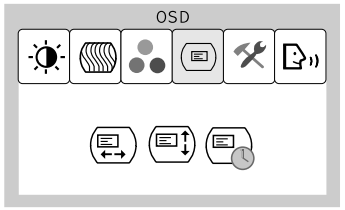
User Color



– + → **SELECT** → – + → **MENU**

1. Use – ,+ to move User color ICON.
2. Press SELECT button to select it.
3. Use – ,+ to increase or decrease each color.

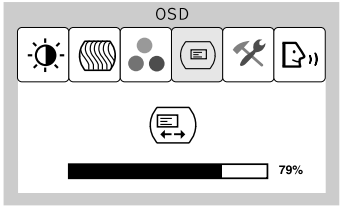
OSD



MENU → – + → **SELECT**

1. Press MENU button to access main menu.
2. Use – ,+ to move OSD ICON.
3. Press SELECT button into the submenu.

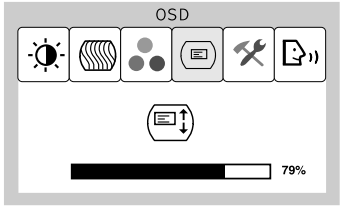
OSD H-Position



– + → **SELECT** → – +

1. Use – ,+ to move OSD H-Position ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust OSD left or right.

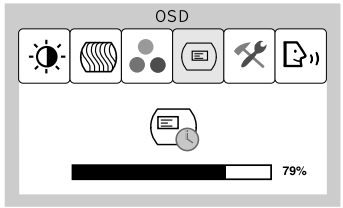
OSD V-Position



– + → **SELECT** → – +

1. Use – ,+ to move OSD V-Position ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust OSD upward or downward.

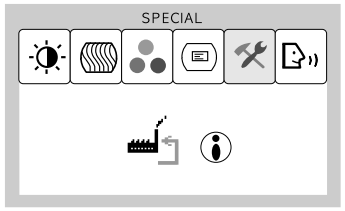
OSD Time



– + → **SELECT** → – +

1. Use – ,+ to move OSD Time ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust OSD display time.
4. Press Menu button to return main menu.

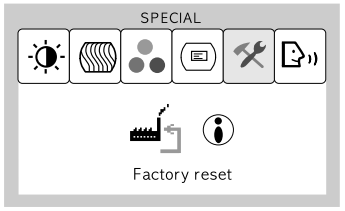
Special



MENU → − + → SELECT

1. Press the MENU button to access main menu.
2. Use − ,+ to move Special ICON.
3. Press SELECT button into the submenu.

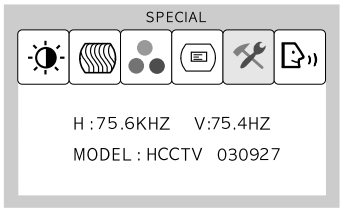
Factory Reset



− + → SELECT

1. Use − ,+ to move the Factory Reset ICON.
2. Press SELECT button to return to default setting.

Information



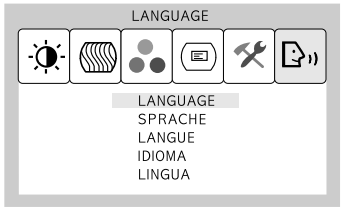
MENU → − + → SELECT

1. Use − ,+ to move the Information ICON.
2. Press SELECT button to select it.

You can know display information

※ According to the characteristic of video card, display information can be incorrect

Language

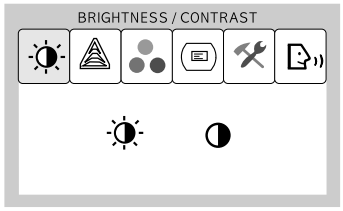


MENU → − + → SELECT → − +

1. Use − ,+ to move Language ICON.
2. Press SELECT button to select it.
3. Use − ,+ to select language.

Adjusting OSD
- CVBS, S-VIDEO MODE

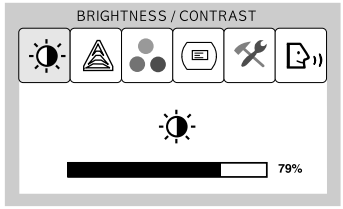
Brightness / Contrast



MENU → − + → SELECT

1. Press the MENU button to access main menu.
2. Use − ,+ to move Brightness / Contrast ICON.
3. Press SELECT button into the submenu.

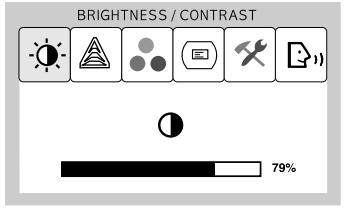
Brightness



− + → SELECT → − +

1. Use − ,+ to move Brightness ICON.
2. Press SELECT button to select it.
3. Use − ,+ to adjust the brightness of the screen.

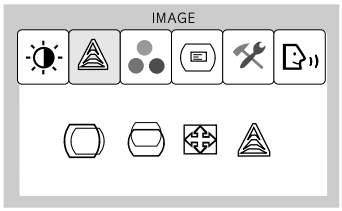
Contrast



− + → SELECT → − +

1. Use − ,+ to move Contrast ICON.
2. Press SELECT button to select it.
3. Use − ,+ to adjust the contrast of the screen.

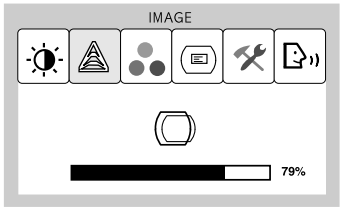
Image



− + → SELECT → − +

1. Press the MENU button to access main menu.
2. Use -,+ to move IMAGE menu.
3. Press the SELECT button to go in the submenu.

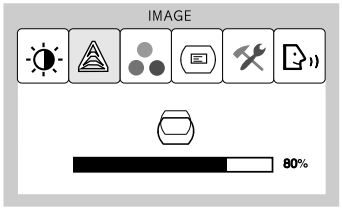
Horizontal Position



− + → SELECT → − +

1. Use − ,+ to move H-Position ICON.
2. Press SELECT button to select it.
3. Use − ,+ to adjust display left or right.

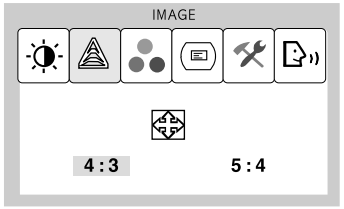
Vertical Position



− + → SELECT → − +

1. Use − ,+ to move V-Position ICON.
2. Press SELECT button to select it.
3. Use − ,+ to adjust display upward or downward.

Aspect Ratio



– + → SELECT → – +

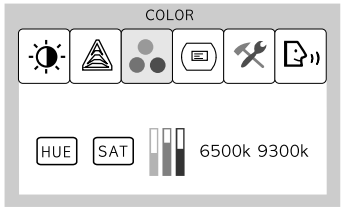
1. Use -,+ to move ASPECT RATIO menu.
2. Press the SELECT button to select it.
3. Use -,+ to select 4:3 or 5:4.

Sharpness (CVBS,S-VIDEO Mode)

– + → SELECT → – +

1. Press the MENU button to access main menu.
2. Use – ,+ to move Sharpness ICON.
3. Press SELECT button to select it.
4. Use – ,+ to adjust the sharpness.
   (Adjust the clearness of the screen)

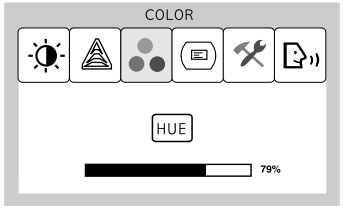
Color



MENU → – + → SELECT

1. Press MENU button to access main menu.
2. Use – ,+ to move Color ICON.
3. Press SELECT button into the submenu.

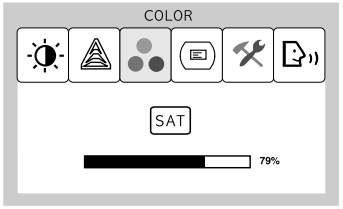
HUE (CVBS,S-VIDEO Mode)



– + → SELECT → – +

1. Use – ,+ to select the HUE ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust the HUE.

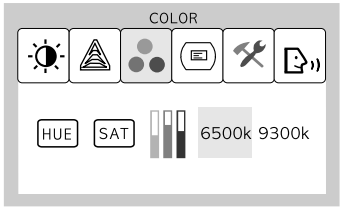
Saturation (CVBS,S-VIDEO Mode)



– + → SELECT → – +

1. Use – ,+ to select the Saturation ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust the saturation.

Preset Color

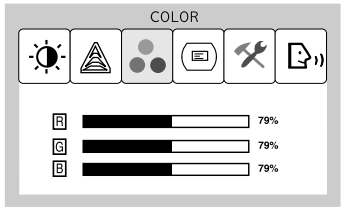


– + → MENU

1. Use – ,+ to select the Mode 1, and Mode 2.
2. Press the Menu button to return to the previous state.

9300K : Slightly Bluish white.
6500K : Slightly Reddish white.

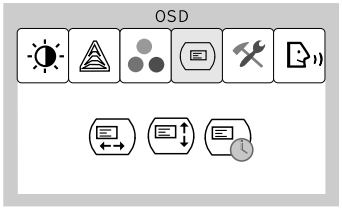
User Color



– + → SELECT → – + → MENU

1. Use – ,+ to move User color ICON.
2. Press SELECT button to select it.
3. Use – ,+ to increase or decrease each color.

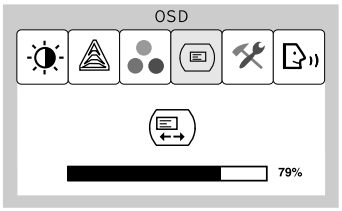
OSD



MENU → – + → SELECT

1. Press MENU button to access main menu.
2. Use – ,+ to move OSD ICON.
3. Press SELECT button into the submenu.

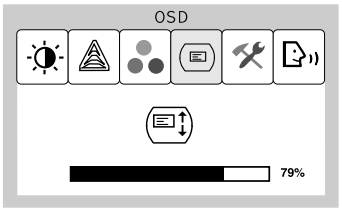
OSD H-Position



– + → SELECT → – +

1. Use – ,+ to move OSD H-Position ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust OSD left or right.

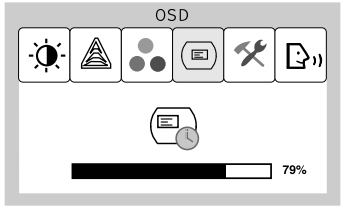
OSD V-Position



– + → SELECT → – +

1. Use – ,+ to move OSD V-Position ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust OSD upward or downward.

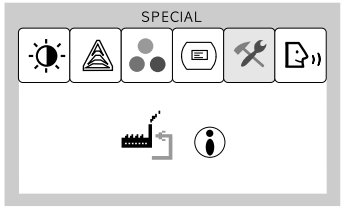
OSD Time



– + → SELECT → – +

1. Use – ,+ to move OSD Time ICON.
2. Press SELECT button to select it.
3. Use – ,+ to adjust OSD display time.
4. Press Menu button to return main menu.

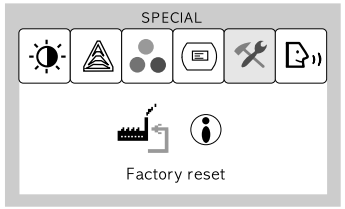
Special



MENU → – + → SELECT

1. Press the MENU button to access main menu.
2. Use – ,+ to move Special ICON.
3. Press SELECT button into the submenu.

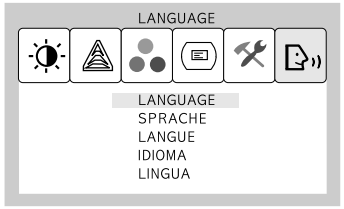
Factory Reset



– + ➔ **SELECT**

1. Use – ,+ to move the Factory Reset ICON.
2. Press SELECT button to return to default setting.

Information



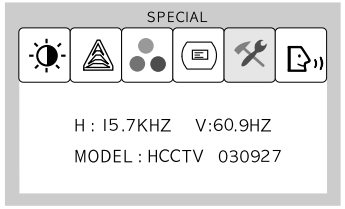
MENU ➔ – + ➔ **SELECT**

1. Use – ,+ to move the Information ICON.
2. Press SELECT button to select it.

You can know display information

※ According to the characteristic of video card, display information can be incorrect

Language



MENU ➔ – + ➔ **SELECT** ➔ – +

1. Use – ,+ to move Language ICON.
2. Press SELECT button to select it.
3. Use – ,+ to select language.

Standard Signal Table

▼ PC Supported Mode

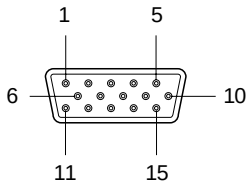
Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
VGA (720 X 400)	31.469	70.087	28.322
VGA (640 X 480)	31.469	59.940	25.175
VGA (640 X 480)	37.500	75.000	31.500
SVGA (800 X 600)	37.900	60.320	40.000
SVGA (800 X 600)	46.875	75.000	49.500
XGA (1024 X 768)	48.363	60.004	65.000
XGA (1024 X 768)	60.023	75.029	78.750
MAC (640 X 480)	35.000	66.667	30.240
MAC (832 X 624)	49.726	74.551	57.284

▼ DVR Supported Mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
NTSC 1 (616 X 452)	31.469	59.940	24.5454
NTSC 2 (680 X 452)	31.469	59.940	27.000
PAL 1 (736 X 544)	31.250	50.000	29.500
PAL 2 (680 X 544)	31.250	50.000	27.000

Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment	Pin No.	Assignment
1	Red Video	9	5V Input
2	Green Video	10	Ground
3	Blue Video	11	Ground
4	N.C	12	SDA
5	Ground	13	H.Sync
6	Red Video Ground	14	V.Sync
7	Green Video Ground	15	SCL
8	Blue Video Ground		



15pin D-Sub

Specification

Model		**IK-H550V**(B15AC)
LCD Panel	Type	Amorphous active matrix super TFT LCD
	Screen Size	38.1cm (Diagonal)
	Maximum Resolution	1024 X 768 @ 75 Hz
	Pixel Range	0.297 mm X 0.297 mm
	Display Colors	16.2M Color
	Contrast Ratio	300 : 1
	Viewing Angle	70° / 70° / 55° / 60° (Left / Right / Up / Down)
	Response Time	25 msec
	Luminance	250 cd/m ^{2}
Synchronization	Horizontal Frequency	60kHz (Max.)
	Vertical Frequency	75 Hz (Max.)
Power Consumption	Maximum	40W
	Power Saving Mode	Under 3W
Control key	Front Part	SOURCE, MENU/EXIT, SELECT, POWER, -/☼ , +/◐, AUTO
Input Signal	Input	Video : Analog RGB(0.714Vpp)75ohm, Composite in (BNC),S-VHS in
	Connector	15-pin Mini D-sub, Stereo, S-VHS, BNC *1
Compatibility	IBM	VGA,SVGA,XGA
		Normal&Ergonomic Modes
	Video	NTSC/PAL standard
Power Supply		Input : 100-240Vac (50/60 Hz), 0.6A
Wall Mount		VESA Standard
Safety Standard & EMI	Safety Standard	UL / C-UL
	EMI	FCC, CE
Dimension	Size and Weight	352 ×156 ×369/ 4.1kg

Troubleshooting

Power LED is dark. No picture. ▷
- Check the power connection. (Refer to page 4)

OSD, "check RGB (CVBS, SVIDEO)" is displayed on the screen. ▷
- Check the signal cable or signal Source. (Refer to page 4)

Screen looks to be run down. ▷
- Perform Auto_config.

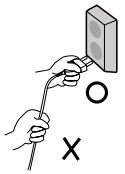
Screen is not clear. ▷
- Remove attaches to the signal line (Video extension cable and others) and switch on.
- Perform Auto-config.
- Adjust clock and PHASE.

Display is unstable and trembling. ▷
- Check the resolution and frequency of computer and video card, and set up again refer to the current monitor mode and standard signal mode table.

Color is irregular.	• Adjust COLOR at User Mode in OSD Color Menu.
Double images or 'ghosts'.	• Check the resolution and frequency of computer and video card, and set up again in reference to the current monitor mode and standard signal mode table.
Picture is dark.	• Adjust COLOR at User Mode in OSD Color Menu.
Picture is biased or cut or too wide.	• Perform Auto-Config.
Power LED turns into Green blinking.	• Monitor is in DPMS mode.

Warning

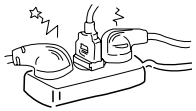
To prevent damage or loss, please read this warning carefully.



● When connecting/disconnecting the plug, pull out the plug itself, and never pull the cord to prevent fire caused by short.

● To prevent electric shock, do not connect/disconnect the plug with wet hand.

● If you see smoke or smell something burning, stop using the unit, switch off the power, pull out the plug, and then contact your local service station.



● To prevent fire, do not connect a large number of equipments in a single line.

● To prevent fire and electric shock, pull out the plug in case of thunder and lightening.

● To prevent fire and electric shock, do not try to take the monitor apart or repair it yourself. Contact your local service station or customer service center for inspection, modification or repair.

Ikegami

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Ikegami Tsushinki Co., Ltd.
Printed in Korea
E81015J0